

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB2004/003597

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 E21B47/18 E21B43/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 685 628 A (SOFITECH NV ; SCHLUMBERGER CIE DOWELL (FR)) 6 December 1995 (1995-12-06) column 3, lines 50-58 column 4, lines 20-23 column 4, lines 35-48	1-30
Y	US 2003/026167 A1 (HAHN DETLEF ET AL) 6 February 2003 (2003-02-06) paragraph '0006! paragraph '0015! paragraph '0029! paragraph '0043!; figures 2,5 ----- -/--	1-30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

22 October 2004

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03/11/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96/09561 A (SENSOR DYNAMICS LTD ; KLUTH ERHARD LOTHAR EDGAR (GB); VARNHAM MALCOLM) 28 March 1996 (1996-03-28) page 2, lines 3-12 page 3, lines 3-11 page 7, lines 8-11	1,7-9, 16,21, 23,27,28
A	WO 02/27139 A (TUBEL PAULO S) 4 April 2002 (2002-04-04)  paragraph '0010! paragraph '0032! paragraph '0053!; claims 1,3,5,6,11,14,15,39	1,3,5,7, 10,14, 15,19
A	US 6 172 614 B1 (GARDNER WALLACE R ET AL) 9 January 2001 (2001-01-09) the whole document	1,15,16, 19,21

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International Application No  
PCT/JP2004/003597

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0685628	A	06-12-1995	US 5488989 A CA 2150786 A1 DE 69513721 D1 DK 685628 T3 EP 0685628 A1 NO 952045 A	06-02-1996 03-12-1995 13-01-2000 29-05-2000 06-12-1995 04-12-1995
US 2003026167	A1	06-02-2003	CA 2395098 A1 GB 2377955 A ,B NO 20023523 A	25-01-2003 29-01-2003 27-01-2003
WO 9609561	A	28-03-1996	AU 3527295 A WO 9609561 A1	09-04-1996 28-03-1996
WO 0227139	A	04-04-2002	EP 1320659 A1 WO 0227139 A1	25-06-2003 04-04-2002
US 6172614	B1	09-01-2001	NONE	